

639

639



LOG BOOK.

(240 DAYS.)

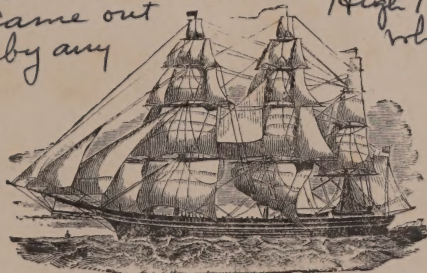
Voyages of the

Steamer Alexander

Commanded by

James A Tilton

Note. Last 2 voyages to Artic Ocean after Bow
head whales was made on *The Alexander* with
Captain Tilton. Came out "High Hook" with most
whales captured by any
these 2 trips.



L. FOARD,

DEALER IN

SHIP CHANDLERY AND NAVAL STORES

SAN FRANCISCO

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[illegible][illegible]

From *San Francisco* towards *Arctic Ocean*

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of <i>April 5th</i>	190
A. M.	1									<i>Light S. W. wind</i>		
	2									<i>and hazy weather</i>		
	3									<i>under all sail and</i>		
	4						<i>46.05</i>		<i>29.83</i>	<i>full speed of steam</i>		
	5									<i>Lat 40.33</i>		
	6									<i>Long 130.35</i>		
	7											
	8											
	9			<i>April 6th</i>	<i>Weather</i>	<i>and W</i>				<i>under Steam and Stag</i>		
	10									<i>Sails at 2 m speed</i>		
	11									<i>Steam and all steam</i>		
P. M.	1									<i>Sails blowing a gale</i>		
	2						<i>47.1</i>		<i>30.14</i>	<i>Spy heading</i>		
	3									<i>W. W.</i>		
	4									<i>Lat 32.08</i>		
	5									<i>Long 131.08</i>		
	6									<i>Park Reg 478</i>		
	7									<i>miles E by S S. E.</i>		
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1				<i>Monday April 7th 1902</i>							
	2			<i>begin</i>	<i>with a heavy gale from S. W.</i>					<i>S. W. Ship under</i>		
	3									<i>close reefed main</i>		
	4									<i>S. W. and Stag</i>		
	5						<i>44</i>		<i>30.48</i>	<i>all on port tack</i>		
	6											
	7											
	8											
	9				<i>April 8th</i>							
	10						<i>44</i>		<i>30.31</i>	<i>Ship now on</i>		
	11									<i>port tack at 8 on</i>		
	12									<i>begin to moderate</i>		
P. M.	1									<i>at 2³⁰ begin to</i>		
	2									<i>Steam under one</i>		
	3									<i>bell steering NW</i>		
	4									<i>by 2 h</i>		
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

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San Francisco

Arctic Ocean

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	1902
A. M.	1									light moderate wind from	April 9	1902
	2									W. M. dead on calm with		
	3									rain under jungle		
	4									steering. W. M. at 3 PM		
	5									under all sail and steam		
	6									at 9:40 PM started the		
	7									engine		
	8									Lat. 44-00		
	9							47	30-12	Long 133-23		
	10											
	11											
	12				April 10					April 10 th 1902		
P. M.	1									strong S.E. wind and		
	2									rain at 2 PM started to clear		
	3									under a jungle belt and		
	4									all sail steering by W.		
	5									Left by dead reckoning 45-22		
	6									Long " " " 136-02		
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	1902
A. M.	1								30-15	light wind from N.E. W.	April 11	1902
	2									W. M. under steam and		
	3									fore & aft sail. thick and		
	4						46.			hazy and more rain		
	5									Lat. 45-40		
	6			W by N						Long 136-15		
	7											
	8											
	9											
	10				April 12 1802							
	11									begin with strong breeze		
	12									from N.E. W. backing		
P. M.	1									to S.E. with rain at 2 PM		
	2									set square sails and stopped		
	3									the engine began to blow		
	4									a gale steering W by N.		
	5								22-80	Lat. 47-19		
	6						41-05			Long 141-46		
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

San Francisco

Arctic Ocean

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1									1st part wind from	April 12	190
	2									S.W. backing to S.E.		
	3									at 2 ⁰⁰ all square		
	4									Sail cut - run		
	5									at 6 ⁰⁰ began to		
	6									blow & gale at 7 ⁰⁰		
	7									stopped steering		
	8									at 8 ⁰⁰ began to		
	9									steer		
	10						41-05		22-84	Log 42-19		
	11									Long 141-45		
	12											
P. M.	1											
	2											
	3									April 13 th 1902		
	4									strong S.W. wind		
	5									driving to N.W.		
	6									cloudy and thick		
	7						42-00		22-20	steering N by N & N		
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1									April 14 th 1902		
	2						43-00		22-52	first part light breeze		
	3									from S.E. later		
	4									a gale at 7 ⁰⁰		
	5									stopped steering		
	6									steering 25 S		
	7									no S		
	8									Sail by dead		
	9									reckoning 42-10		
	10									Long " 148-50		
	11											
	12											
P. M.	1						39-40	45	22-50	Thursday 15 th 1902		
	2									wind W & N decreases		
	3									all sail and S.W. steam		
	4									steering N & S		
	5									Sail by dead reck		
	6									32-53		
	7									Long " "		
	8									130-25 " "		
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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Arctic Ocean

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From

towards

San Francisco

Arctic Ocean

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 23 190.
A. M.	1									ship laying to under	
	2									easy sail close to Akela	
	3									pass of daylight - ship	
	4									the N 3 E land 2 mls	
	5									at San Jansel the day	
	6									at 9 am stopped and	
	7									caught 120 cod fish	
	8									at 12 ³⁰ Jansy towing	
	9									Akela, Jans seen	
	10									the Thrascher in	
	11									anulga pass at	
	12									2 m stopped off	
P. M.	1									fresh Rocks for	
	2									cod fish at 4 m	
	3									off the Thrascher	
	4									33 days from San	
	5									Francisco at 5 m	
	6									anchored at Dutch	
	7									Harbor in 15 fathoms	
	8									of water -	
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 24 190.
A. M.	1									Ship at anchor	
	2									at 6 am went along and	
	3									the charts for coal	
	4									and water sh 4 hr	
	5									11.30 and on shore	
	6									in the stream	
	7									got 8 Beal from	
	8									shore and sent	
	9									down 2 or 3 m gall	
	10									yard the 8 th Beal	
	11									arrived to dig but	
	12									brought no mail	
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

San Francisco

towards

Arctic Ocean

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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 25 th 1902
A. M.	1								29.80	Ship at anchor at Duluth	
	2						56.0	45.0		Heard at 11 am steamed	
	3									to Unalakleet Harbor for	
	4									to see arch men put	
	5									out our Boats on the	
	6									cranes	
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1									Sat April 26 th 1902	
	2									at daylight steamed	
	3									back to Duluth Harbor	
	4									went on board Beluga	
	5									at 9 am steamed out to	
	6									waterfall and caught	
	7									codfish at 2 pm started	
	8						41.0		32.0	for the Ice.	
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of 27 th April, 1902
A. M.	1									at 5 ⁰⁰ made all sail	
	2									and stem steering	
	3									on west 11 ³⁰ spoke	
	4									the Beluga and	
	5									to E & N.E.	
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1									Monday April 28 1902	
	2									wind moderate from	
	3									S.E. under all sail	
	4									and stem at 2 pm	
	5									came to stop of Ice	
	6									at 5 pm shifted stem	
	7									and land around	
	8									the Ice.	
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

San Francisco

Arctic Ocean

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 29 190
A. M.	1						31.00		29.39	light variable wind	
	2									ship working to the	
	3									through ice under	
	4									stern with heavy	
	5									squall.	
	6									Lat 59-00	
	7									Long 100.	
	8										
	9										
	10										
	11										
	12										
P. M.	1									April 30 th 1892	
	2									light - var wind	
	3						29.00		30.00	ship under way	
	4									to the S. E. and	
	5									very old map.	
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of May 1 st 190
A. M.	1									strong wind from	
	2									S. E. cloudy and	
	3									last part storm	
	4									raised the Karluk	
	5						30.00		29.50	in company with	
	6									her.	
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1									May 2 nd 1902	
	2									strong S. E. wind	
	3									moderately with	
	4									fog & snow rocky	
	5									W. E. wind under	
	6									S. E. along the ice	
	7									Karluk in sight.	
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

9

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of May 3 rd 1902
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

sheep under sail &
 steam working to &
 astward which and
 foggy got 18 fathoms of
 water at dark laying
 around the ice

May 4th 1902
 began to cut light snow
 and end column sky,
 steaming along the ice
 to the N.E. at 2 pm
 steamed back as the
 ice made on the
 main land.

Sch. 59.09
 Long 164-51.

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of May 5 th 1902
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

begin light N.E.
 wind at 5 am raised
 the Karluk at 8 am
 spoke her. worked along
 the ice Karluk in
 company
 No Obs.

May 6th 1902
 moderate weather
 wind N.E. steamed
 to the N.E. through
 ice creek. a large
 head of up. at 9 am
 Minusky Island about
 20 miles E from us
 Karluk in company

Sch 60-48
 Long 166-00.

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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towards

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11

[illegible][illegible][illegible][illegible]

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of May 13 - 190
A. M.	1									begin with light	
	2									and from 10 to at	
	3									daylight begin to	
	4									show in back	
	5									ward at 11:30 head to	
	6									ship ice thick and	
	7									heavy tied up	
	8									to a large floe	
	9									Haluts & Jeanette	
	10									between of us	
	11									See Ed 15 2, 170 3 2	
	12										
P. M.	1									Monday May 14	
	2									Blowing a gale from	
	3									the steaming to	
	4									ward and at 5 pm	
	5									came to heavy ice	
	6									at 5 pm tied up	
	7									to a large piece	
	8									the lines out	
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of May 15 - 190
A. M.	1									steams but up	
	2									to the ice reaches	
	3									thick with snow	
	4									squalls at 9 am	
	5									the ice melts	
	6									and tied up Haluts	
	7									and Jeanette to 6	
	8									tied up at 5 pm	
	9									cleared up some	
	10									steamed to 6 pm	
	11									through heavy ice	
	12									at 9 pm contact	
P. M.	1									in clear water and	
	2									ice steamed to	
	3									ward and slow	
	4									all night thick	
	5									and Haluts snow	
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[13]

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From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of May 18 190
A. M.	1									at anchor at Marcus Bay at 5 ^{am} steamed to the N at 8 am anchored at Indian Point traded with the natives until 4 pm made sail and stood off to the eastward along the northern Ice Cruising for whales	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1									the Straits full of Ice can get no farther to Indian Point about 10 miles	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of 190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[15]

[illegible][illegible]

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[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[17]

[illegible]

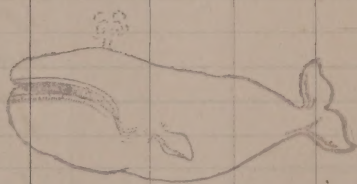
From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1									begin gulls. S. C.	May 25	
	2									supper ship under old		
	3									Sail working to the		
	4									truck and faggot		
	5									at 43° come up to		
	6									the Jeanette chasing		
	7									a whale caught in		
	8									and out to caddy		
	9									ship fish in.		
	10									light Sails ship		
	11									huping up to the		
	12									S. C. joined the		
P. M.	1									Belvedere today		
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1									first part high-	May 26	
	2									over from R. C.		
	3									with cloudy weather		
	4									she on board her		
	5									Boats, for a devil		
	6									fish come up. on		
	7									beard and at 52°		
	8									lowered for a Berkeed		
	9									S. B. Boat went in		
	10									and made a mess		
	11									of it chased off about		
	12									2 hours more the		
P. M.	1									S. B. Boat struck and		
	2									got badly stove and		
	3									the whale cut him		
	4									in and took in		
	5									the S. B. Boat will		
	6									put out of him		
	7									George Boat		
	8											
	9											
	10											
	11											
	12											



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[19]

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of May 27 190
A. M.	1									light variable wind coming on the streets for whale thick clouds melts at 12 on shore the Jeanette started through scattering ice for Diomedes the Jeanette lowered for a whale going quick to N.W. at night laying about round in the ice.	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1									Wed May 28 th 1892 light S. wind drift working along the ice at 9 ^{am} lowered for a whale going to W. & N. & W. was down 2 hours W. Boat was along side of the Gulf but did not see the boat the Jeanette lowered for my whale in the fog obs. laying round on both backs. South.	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of May 29 th 190
A. M.	1									first part calm with fog and sometimes clear des saw Cape Cape & Diomedes spoke the Bear whal from the Western Ice reports the fleet as having ret- ired much at 1 pm steamed towards Diomedes the ice looking heavy to the northward of us at night laying about in the fog.	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of <i>may 30</i> 190
A. M.	1									begin with light Sth	
	2									brigs and fog squalls at	
	3									5 m raised a dense fog	
	4									half going slow to slow	
	5									ward hauled and got	
	6									close to and the Sth	
	7									harshal drove her	
	8									off steaming later	
	9									lowered again and	
	10									she steamed across	
	11									I am moving quick to the	
	12									head to steam out of	
P. M.	1									at several times sever	
	2									al ships in sight all	
	3									chasing. no one got	
	4									one had lots of shots	
	5									around all day and	
	6									lots of David the up	
	7									the Sth Bowhead	
	8									with the fleet - coming	
	9									between East Cape	
	10									to Head & Duomo	
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of <i>may 31</i> 190
A. M.	1									first half light breeze	
	2									gusty Sth ship sailing	
	3									to Sth back to East	
	4									from Ice to Ice in the	
	5									Ice at 11 ⁰⁰ hauled	
	6									the Bowhead at 9 pm	
	7									had to steam to	
	8									round out of	
	9									the Ice at 10 pm	
	10									stopped and made	
	11									real round ships	
	12									near by	
P. M.	1										
	2									saw no whale today	
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[21]

[illegible]

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of June 3 ² 190
A. M.	1									light variable wind	
	2									and calm with fog	
	3									steamed down along	
	4									the ice flow toward	
	5									the head had to turn	
	6									back for ice later had	
	7									cleared up with other	
	8									ice and steamed	
	9									for Drowned at	
	10									1 pm tied up to the	
	11									ground ice of the	
	12									settlement at 9 am	
P. M.	1									nautilus were about	
	2									the ice broke on a	
	3									nearly drowned	
	4									a native boy a	
	5									white man named	
	6									Bismarck that went	
	7									ered here for whale was	
	8									shot during the winter	
	9									by a native called Mc	
	10									ginty the Bowhead	
	11									looked for a whale	
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of June 4 190
A. M.	1									light variable wind	
	2									sharp tied up to the	
	3									ice at the same	
	4									place lots of nautilus	
	5									on shore but no trace	
	6									no skin of any kind	
	7									the Eskimo here the	
	8									Bowhead came in and	
	9									tied up the fiddle	
	10									came in night tonight	
	11									out in the streets	
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[23]

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of June 5 th 190
A. M.	1									ship tied up to the Ice the Bowhead Harbors Narwhal had Boats down chasing the Beluga seemed right in amongst the Boats and tied up at 8 am I went on board the Beluga she is clean before I got back we raised a whole herd the rest of our Boats and the W Boat struck one took him along side and towed him in to the natives they took his Body and cut him up for food	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of June 6 th 190
A. M.	1									ship tied up to the Ice cruising along the Ice in Boats watch & watch at 1 ³⁰ the S Boat struck a whole took out 4 Boats line and then came out from the Ice the Harbors Boat and the Narwhal struck him all with him along side and cut him in. Lost lots of line around the Ice and on the Rocks on the Bottom a hot old time around this whal	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

San Francisco

towards

Arctic Ocean.

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of July 11 190
A. M.	1									at anchor at St. Michael.	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.	

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of July 16 190
A. M.	1									Sting at anchor at St. Michael waiting for a change of coal the boat head getting coal to stay got King Sal mon soon mail.	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.	

[25]

[25]

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towards

[illegible][illegible][illegible]

From

towards

[27]

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 15 day of July 1902
A. M.	1									light. Easterly wind sight almost by Pt. Port- Clarence and then kept her off for a few miles of water at 11 a.m. dropped anchor 90. try making to go on the off named one starboard 100 and one soon slip. at 4 p.m. started for Cape Thompson on under all sail and steam steering N $\frac{1}{4}$ E.
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 16 day of July 1902
A. M.	1									light. S. & wind and rain steaming and saw steam N. E. & at 4:30 p.m. anchored at Pt. Hope a lot of natives came on. heard several vessels anchored here Bonfish Beluga Baylies Karl sky Jemmett & 3 others. there has been a 15 whales taken here but most of them were small
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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towards

[illegible][illegible][illegible][illegible]

[29]

P. M.A. M.P. M.[illegible]

From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	21 day of July	190
A. M.	1									ship steering to S.E. along the Ice at 3 am		
	2											
	3									got around it and steered to the boatman's		
	4									through scattering Ice at 12 am passed Chas		
	5									son Shwab at 2 pm the natives came on		
	6									board at Ice edge at 5 pm tied up to the		
	7									Ice 10 miles South of Pt. Belcher. the		
	8									Marshal Baglies and Jennelle tied		
	9									up here.		
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of 22 nd	190
A. M.	1									light variable winds tied up to the Ice		
	2									at Pt Belcher in 4 fathoms of water.		
	3									at 730 hrs left the Ice and anchored the		
	4									Ice moving to the N.		
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[31]

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of 23 rd 1903	
A. M.	1									at anchor of Belcher in 3 ½ fathoms of water - at 6 am got underway and steamed 4 h towards Pt. Barren went on sight of skull & left and had to put back at 7 pm and anchored in Pearl Bay in 4 fathoms of water later the Bagley and Marshall had up to the ice near by.		
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.

	H.	K.	½ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	24 day of July	1902
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.		

From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 25 day of July 1904
A. M.	1									
	2									light. easterly wind and foggy weather at anchor
	3									
	4									in Pearl Bay the Jeannette tried to go to
	5									cape Smyth but failed Seahorse Island
	6									
	7									
	8									about 1 mile S.S.W.
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 26 day of July 1904
A. M.	1									
	2									at 2 ³⁰ am got under weigh and started
	3									to Skoon to the Eastward to cape Sm
	4									yth in company with Baribal & Bay
	5									his came in thick and foggy at
	6									
	7									
	8									4 am raised the Jeannette off Skull
	9									cliff got to cape Smyth and anchored
	10									
	11									
	12									
P. M.	1									at 12 am native came on board and
	2									reports the catch here as 4 small Whales
	3									latter the whiter came on board.
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[33]

		H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	27 day of July 1902
A. M.		1										
		2										
		3										
		4										
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										
P. M.		1										
		2										
		3										
		4										
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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		H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	18 day of July 1902
A. M.	1											
	2	at anchor at Cape South strong S. E. wind										
	3	the Belvedere got some mail put on shore										
	4	coast for the tender										
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
		Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.	

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	22 day of July 1901
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	23 day of July 1901
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[35]

[illegible][illegible]

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	1 st day of Aug. 1902
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	2 nd day of Aug. 1902
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[37]

[illegible]

towards

[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

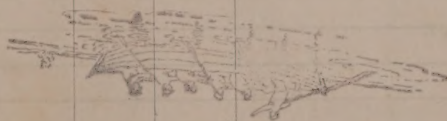
H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 7 day of Aug 190
1									
2									at 1 pm raised a pod of whales in shore lowered our
3									Boats at 11:30 struck at 12:30 finished cutting in a large
4									whale
5									latter breezed up worked in shore in Theresa's Bay.
6									
7									
8									
9									
10									
11									
12									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Bow Boat -

5th whale

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 8 day of Aug 190
1									
2									strong N. wind at 2:30 am lowered for a
3									whale going quick to windward at 6 am came
4									on head stuck in shore about 2 miles from
5									land passed a little scattering ice stud off
6									shore at 10 am raised a whale at 4 pm lowered
7									at 6:30 pm lowered but saw them no more
8									
9									
10									
11									
12									
1									
2									Lat 76.40 the Geanette to return
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 7 day of Aug	190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 16 day of Aug	190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

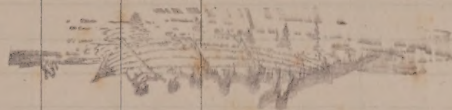
Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

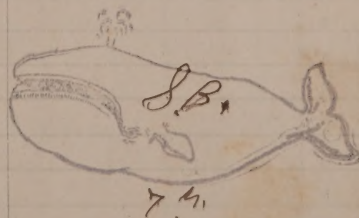
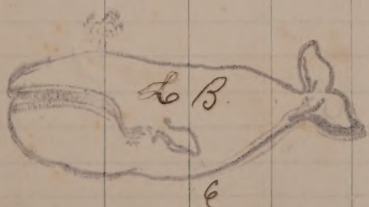
[39]

H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 11 day of Aug. 190
M.	1								1 $\frac{1}{2}$ fath steering towards Nelson head at 1.30 am
	2								spoke the Belvedere reports the Box head 1 stall
	3								latter fifty miles to the headward at 5 am lowered
	4								for a whale but saw but no more the Harbuck
	5								and Beluga had Boats down but with out
	6								success
	7								
	8								
	9								
	10								
	11								
	12								
M.	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 12 day of Aug 190 ?
M.	1								for breeze from N E crossing of Nelson Head
	2								at 1.20 am lowered two Boats for a whale going to
	3								andward quick lat 1.46 lowered the other Boats and
	4								the Larboard Boat struck the fish along side
	5								and cut him in 4 made sail in 45 minutes made
	6								working to N E $\frac{1}{2}$ way from Banks head and cape
	7								at 11.30 lowered again at 1.30 struck and killed
	8								cut him in 3 ships to land out Boat down but
	9								got no whales
	10								
	11								
	12								
M.	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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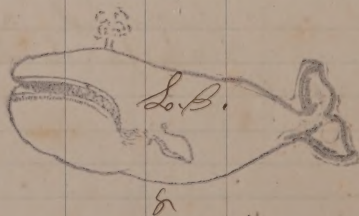
From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	13 day of Aug.	190
A. M.	1									strong breeze from N.E. cruising between Banks		
	2									land and cape Pierce saw the Harluk		
	3									take a whale this morning. passed cape		
	4									Pierce at 6 1/2 pm heavy sea running to sunset.		
	5									put her on the N tack sunset at 8 30 pm.		
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	14 day of Aug.	190
A. M.	1									light wind and pleasant weather Bk on Port tack		
	2									at 4 pm strong breeze Bk in. Darnelley Bay at		
	3									6 pm raised a hook & half lowered and caught		
	4									her steamed out and made sail on S tack.		
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[41]

M.M

P. M

P. M

[illegible]

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	17 day of Aug.	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

light B & wind one ship to the S by at 7 pm
 spoke the Bonhead & Beluga at 8 pm steam
 of within 3 miles of Thesiger Bay

Sat. 70-46

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	18 day of Aug.	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

light variable winds and calms ship
 working to S by at 9 pm the left vessel
 on board the Junelle having nothing more
 left report

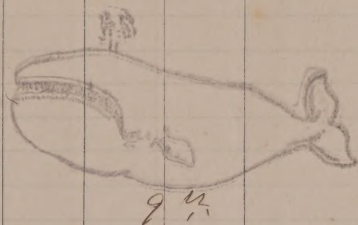
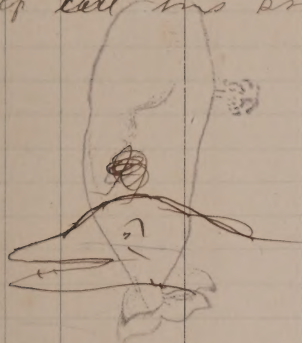
Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[43]

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
										19 day of Aug 1903
A. M.	1									
	2									first good strong breeze from N E at 1 pm the cattle
	3									
	4									came on board the Jonell-hooy rescued a whale
	5									
	6									we lowered at 2 m but Jonell-hooy and galley
	7									
	8									the whale came on board at 4 m lowered and struck
	9									cut her in lowered again the mat went on to one
	10									but the whale seen later the S Boat struck a
P. M.	1									half cart has small in to side and let. brings
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
										20 day of Aug. 1903
A. M.	1									
	2									strong breeze from N E ship working to
	3									S W towards Cape Perice at 7 pm anch
	4									ored in the East side of Dandy Bay
	5									
	6									in 15 fathoms of water.
	7									
	8									
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	28 day of Aug	190
A. M.	1									light cloudy weather at 3 ³⁰ am shore		
	2									of shore and made all sail at 6 am left.		
	3									off down in Dandy bay at 11 ³⁰ passed		
	4									by Cape Parry bk by the head on S. Tach.		
	5									hazy.		
	6											
	7											
	8											
	9											
	10									Lat 69-53		
	11									Long 123-22 W.		
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	29 day of Aug	190
A. M.	1									begin's with a strong S. E. Wind Bk		
	2									under all sail heady N. W. at 5 am		
	3									lowered the boat for a whale but could		
	4									not get him at 330 pm steamed to		
	5									undiscovered by helms heard at 91 pm		
	6									loosed it		
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[45]

P. M.

A. M.P. M.[illegible]

From

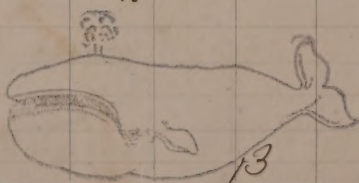
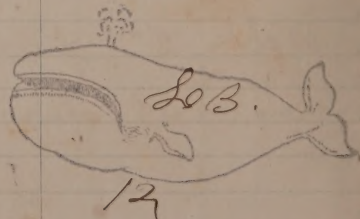
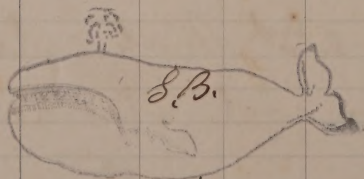
towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	25 day of Aug.	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											



Course Distance Diff. of Lat. Departure Lat. by D. R. Lat. by Ob. Variation Diff. of Lon. Lon. In. Lon. by Ob.

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	26 day of Aug.	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											



Course Distance Diff. of Lat. Departure Lat. by D. R. Lat. by Ob. Variation Diff. of Lon. Lon. In. Lon. by Ob.

[47]

H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
									27 day of August 190
A. M.	1								light N E wind cloudy cruising near where we got
	2								our whales yesterday between the strips of I q about
	3								9 miles off shore from Banks land see the land
	4								on both sides of Prince William straits saw our
	5								carcasses
	6								
	7								
	8								
	9								
	10								
	11								
	12								
P. M.	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								

[illegible][illegible]

towards

A simple line drawing of a whale, viewed from the side, showing its head, body, and tail. The drawing is on a piece of lined paper. The whale is oriented horizontally, with its head to the left and its tail to the right. The head is rounded with a small, dark eye. The body is elongated and tapers towards the tail. The tail is large and curved, with a small, dark patch on its upper surface. The drawing is done in a simple, sketchy style with a single line for the outline and some internal shading to suggest form.

From

towards

[49]

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	31 st day of Aug.	1902
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	1902
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	1 st day of Sept. 1902
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

light breeze from N.W. ship under all sail by 11⁰⁰
and run along the land by Cape Bathurst
at 10⁰⁰ send two boats ashore at Hog mouth for
some freight for the Island at 12⁰⁰ steamed 20
minutes raised up also going to Westward
lowered but without success at dark came on
board and and and anchored in 12 fathoms
N.W. of Cape Bathurst about 12 miles



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	2 nd day of Sept. 1902
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

light breeze from N.W. at 4⁰⁰ raised shales lower
but saw them no more came on board at 6⁰⁰
at 11³⁰ raised a whale at 1⁰⁰ lowered heaved
up strong whale going quick to leeward at 8⁰⁰
blowing strong stern sails S.B. struck cut
him in and made sail anchored at 8⁰⁰
in Lowerford Bay.



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[51]

P. M.A. M.P. M[illegible]

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	5 day of Sept- 190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	6 day of Sept. 190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[53]

[illegible]

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 9 day of Sept- 190
A. M.	1									
	2									strong S E breeze ship under all Sail and Steam
	3									steering to N. S. W. towards Ketum Reef passed
	4									Manning & Martin Point & Chapman Isl
	5									a little ground Ice at 8 ³⁰ passed by the
	6									Island where we came out & returned Reef steer
	7									ing W $\frac{1}{2}$ S.
	8									
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 16 day of Sept- 190
A. M.	1									
	2									strong breeze from S E Bk under all Sail and
	3									steam steering along the coast towards Pt
	4									Barron at 7 ³⁰ pm passed the Point & 8 ³⁰ am
	5									anchored at Cape Smith sent a boat
	6									ashore for mail latter blowing a gale
	7									with rain
	8									
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[55]

[illegible]

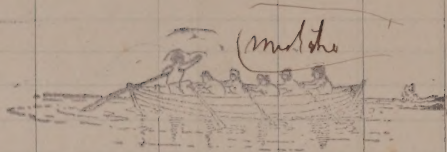
From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	17 day of Sept 190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

five boys from H & O & H the same ship
sight the Grasher took a whale today

Lat 73-18
Long 168-55



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	18 day of Sept 190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

this day began with five boys from H & O ch. gun lowered the 3" inch gun but did not hold on long the 4" made run this day and shot her latter the L Boat struck and drewed got very

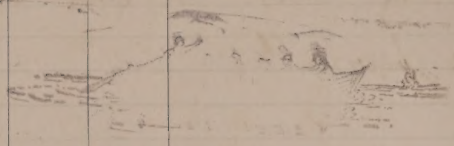


Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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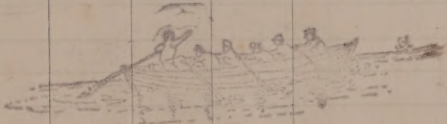
From

towards

[57]

H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 19 day of Sept 1903
A. M.	1								fine blue and with hazy weather lowered trawl for whales going quick. to N N W but could not get up where near them whales going quick to
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
M.	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 20 day of Sept 1903
A. M.	1								light breeze from N W lot of whales but can not catch one going quick and wild as hawks beak down most all day going I see making two
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
									Sept 23-24 Song 176-19 
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
P. M.	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								

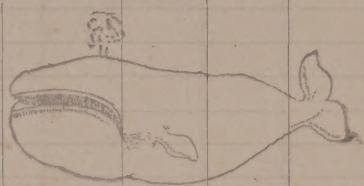
Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	21 day of Sept. 190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

five huge from N.W. ship coming along
the Ice and going Ice. in company with
Beluga and Thrasher lowered Boats and
2nd Boat struck and lost his line
latter Boat Header and 4th make ship
by cut him in and spoke the
Jeonette



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	23 day of Sept. 190
A. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P. M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

five huge from N.W. plenty of whales all
ship chasing but without success going
Ice making spoke the thrasher 2 whale
lost one.

Sat 23-28 Long 171-33



Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[59]

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
M.	1									23 day of Sept 190
	2			calm at 11 am	continued to steer to Eastward					
	3									
	4			with the other ship	no ice to speak of 3 sail on sight.					
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
M.	1										24	Sept
	2									steering to S.E. light breeze from N.W. at		
	3									11 am passed the Baynes gained her sight		
	4									from Herald Island		
	5											
	6											
	7									72-10		
	8									165-09		
	9											
	10											
	11											
	12											
M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.		

towards

[illegible][illegible][illegible][illegible]

[61]

M.M.

. M.

. M.

[illegible]

From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 10 day of Oct 190
A. M.	1									
	2									steering to the South at 11 am stopped Steam
	3									
	4									and made Sail heady S S W at 12 am raised
	5									East Cape at 3 pm steamed S E at 8 pm
	6									stoped and made Sail steering S and later
	7									S E by S.
	8									
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 11 day of Oct 190
A. M.	1									
	2									made changes on our water Box with
	3									in Sail and steamed S E by S at 11 am and
	4									hired fuel our natives a shore blazy a
	5									light gale at 4 pm started South under
	6									all steam and S E
	7									
	8									
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.

(63)

M.MM[illegible]

towards

[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[65]

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
										16 day of Oct - 1908
A. M.	1									
	2									at 7 am began steaming with all sail at 4 m
	3									
	4									raised Unalaska at 8 ³⁰ pm anchored at Dulba
	5									Kakbar I west-ashore and got some mail
	6									
	7									
	8									
	9									
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
										17 day of Oct - 1908
A. M.	1									
	2									at daylight went along side of the Pier. set
	3									down crosscut set up fortification and sail
	4									at 5 pm got up Bore to west. got more mail
	5									
	6									
	7									
	8									Some of the boys Celebrating
	9									the 17th whale season ashore
	10									
	11									
	12									
P. M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	18 day of Oct	190
A. M.	1									at anchor at - Cur alaska or rather tied		
	2									up to the Pier at daylight - had a man		
	3									come down with the Beale's doctor come		
	4									on board and advised us to leave		
	5									as soon as we could at 3 pm left for		
	6									home got outside and caught 3 Cool		
	7									fish at 6 pm made sail along E by S for		
P. M.	1									San Francisco		
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1									This space left Blank		
	2									These days do not Count at all		
	3											
	4											
	5											
	6											
	7									George H. Smith		
	8									2nd Mate of the		
	9									B-1 Clipper		
	10											
	11									Alexander		
P. M.	1											
	2											
	3											
	4									San Francisco		
	5											
	6										California	
	7											
	8											
	9									Thomas F. Muegan		
	10									Chief Boatswain. Betty Washer		
	11									of the Reef		
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[17]

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

at 8 am dropped our anchor of the Luanan
ground the Dado came on board and passed
us but we had to wait until the light Dr
came on board at 10³⁰ he let all hands go on
shore

one stolen Boat in 7 months

Keep her off 3 points

Jack

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

thus ends the Season
of 1902

17 Whales
in
7 months

From

towards

Joseph L. Smith

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			1907	Jan	10 th						
	2											
	3											
	4			got a whale						Leat. about 118		
	5											
	6									Long about 39-		
	7											
	8			Jan 11 th	saw whale several times							
	9			lowered but got none								
	10											
	11			Jan 12	took sight whale					Lat. 45.50 East. Long		
	12			" 13	saw whales but did not lower					Lat 45.00 long 30.00		
P. M.	1											
	2			" 14	took a whale					Lat 44 = 49		
	3									Long 49		
	4			" 15	saw a whale					44-50		
	5			" 15	" "					Long 49-46		
	6											
	7			" 21	struck & drowned							
	8			" 22	ported but did not get fast					about the same place		
	9			" 23	lowered line					Lat 44 ± 12		
	10									Long 49-59		
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			Jan 24	struck and lost					Lat 44-13		
	2			" 25	" " another one					Long 50 = 20		
	3			lowered line								
	4											
	5			Jan 26	lowered strucks one and lost him & line							
	6			" "	lowered again got one							
	7									Lat. 44 = 20		
	8			" 29	lowered but saw him no more					Long 50 = 36		
	9			" 30	took one					Lat. 44-10 Long 50-57		
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[69]

[illegible][illegible][illegible]

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			<i>April</i>	<i>1st</i>	<i>1908</i>						
	2	<i>sun</i>		<i>male</i>	<i>1st</i>	<i>9th</i>	<i>mor</i>					
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[71]

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			B-g	Daisy	1910				Right-Whales		
	2	Nov 9		Lat	36-38	South				Long. 10-10 West-		
	3	" 13		"	37-10	"	"	"	10-10	"		
	4	" 15		"	36-45	"	"	"	10-15	"		
	5	" 18		"	36-45	"	"	"	9	46	"	
	6	" 21		"	36-20	"	"	"	9	37	"	
	7	" 27		"	36-00	"	"	"	9	46	"	
	8	" 28		"	36-05	"	"	"	9	17	"	
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

(where whales have been caught)



	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			Sperm' whaling.						Capt. Allen,		
	2			Lat. 17 1/2						Long. 23 1/2 W.		
	3									West.		
	4			Lat. 16 to 18						South		
	5											
	6			Long 36 to 37						West.		
	7											
	8			Right Whale.								
	9			Lat. 36 to 38						South.		
	10											
	11			Long. 9 to 10						West.		
	12											
P. M.	1	1867.		Capt. William Allen, Bark Pacific.								
	2	Dec. 20.										
	3			Lat. 37-00						South		
	4											
	5			Long. 18 to 19						West.		
	6			Saw. Right Whales,								
	7											
	8											
	9											
	10											
	11											
	12											

	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			Capt. Rose, North Atlantic.								
	2			Lat. 32 to 33 North								
	3			Long. 52 to 53 West,								
	4			April to July 1 st .								
	5			Then 31½ North.								
	6											
	7											
	8											
	9											
	10			Op. Capt. Shockley.								
	11			Pidgeon Ground.								
	12			Lat. 33 to 35 South.								
P. M.	1			Long. 9 to 4 West.								
	2											
	3			Lat. 32 South								
	4			Long. 00 to 02 West.								
	5											
	6											
	7											
	8											
	9			Lat. 8. South								
	10			Long. 11. East								
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			Lat. 9 South								
	2			Long. 9 East								
	3			July and August.								
	4											
	5											
	6			Ganton. Capt. Shockley.								
	7			Walvisch Bay.								
	8			Lat. South P.								
	9			Long. East								
	10			April 6	17	30				10 - 43		
	11			" 7	17	30				10 - 40		
	12			" 8	17	14				9 - 43		
P. M.	1			" 10	16	00				11 - 00		
	2			" 15	16	00				11 - 00		
	3			" 22	15	30				11 - 00		
	4			" 27	15	00				11 - 22		
	5			May 1 st	15	00				11 - 30		
	6			" 6	16	30				10 - 35		
	7			" 11	16	00				10 - 24		
	8			" 22	16	10				10 - 32		
	9			June 2	11	43				9 - 10		
	10			" 8	11	43				9 - 10		
	11			" 8	11	43				9 - 10		
	12			" 11	11	43				9 - 10		

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[73]

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1				Lat. South					Long. East		
	2			June 15	9	53				10	17	
	3			" 19	9	24				11	16	
	4			July	7	50				9	33	
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5			Lat 35-43 S	Long.	456 W						
	6			" 35 25 S	"	545 "						
	7			" 35 40 S	"	1240 "						
	8											
	9			1908								
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			Arthur	W	Wood Buff	1910			Capt. Rose Canton 7207		
	2			May 22 nd	Lat	31-37 N	51-13 W			Lat. 32. to 33 N		
	3			June 7 th	"	31-48	50-55			Long 52. " 53 W		
	4			" 15	"	31-42	49-23			Spd winded July 10. then		
	5			" 20	"	31-44	50-40			31 1/2 North		
	6			" 22	"	31-38	50-48					
	7			" 24	"	31-18	50-34					
	8			July 8	"	32-30	52-04					
	9			" 10	"	32-40	52-12					
	10			" 20	"	33-07	52-35					
	11			" 25	"	33-09	52-57					
	12			" 27	"	33-17	53-19					
P. M.	1			" 28	"	33-43	53-20					
	2			" 31	"	33-33	53-21					
	3			Aug 3	"	33-43	53-27					
	4			" 6	"	33-30	53-37					
	5			" 18	"	33-58	53-45					
	6			" 20	"	33-69	53-48					
	7			" 21	"	33-05	53-14					
	8			Sept 3	"	33-53	53-17					
	9			" 5	"	33-57	53-14					
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

By Gassy taken by L. Seal. 1909.

	H.	Oct.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												
P. M.	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												

Course Distance Diff. of Lat. Departure Lat. by D. R. Lat. by Ob. Variation Diff. of Lon. Lon. In. Lon. by Ob.

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course Distance Diff. of Lat. Departure Lat. by D. R. Lat. by Ob. Variation Diff. of Lon. Lon. In. Lon. by Ob.

[75]

[illegible]

From

towards

B-g Day 1909 Bow Boat

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1										1909	
	2										Nov 18	
	3											
	4										April 27	
	5										April 27	
	6											
	7										May 24	
	8											
	9											
	10											
	11										Dec 28	
	12										Nov 9	
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[77]

[illegible][illegible]

B-g Daisy. 1909

[illegible][illegible]

towards

[79]

B-g Daisy 1911

[illegible][illegible][illegible]

From

towards

Europa 1877 Petagonic

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1	Jan	1	81 = 42	South	Long	45 = 42	West				
	2	"	11	45 = 40	"	"	55 = 1	"				
	3	"	13	46 = 12	"	100	55	"				
	4	"	22	50 = 38	"	"	"	"				
	5	"	26	50 = 41	"	"	"	"				
	6	"	30	no ob	25 fms	water						
	7	"	31	" "	"	"						
	8	Feb	1	" "	"	"						
	9	"	8	51 = 24	"	"	68	37				
	10	"	9	51 = 32	"	"	68	16				
	11	"	10	51 = 45	"	"	68	16				
	12	"	16	52 = 58	"	"	68	00				
P. M.	1	"	19	52 14	Coast	Bergens						
	2	June	1	Sperm	Whales							
	3	"	1	33 = 36	"	"	48	00	West			
	4	"	7	28 = 30	"	"	42	30				
	5	"	8	28 = 30	"	"	42	00				
	6	"	13	28 = 30	"	"	41	37				
	7	"	24	28 = 25	"	"	42	28				
	8	July	1 st	28 25	"	"	10	"				
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1	Jan		Europa	Jan	4 th	off	Coast	Jan	Whales	Right	Whales
	2	"	16	52 = 62	South	Long	67 = 36	Mr				
	3	"	17	61 = 20	"	"	68 = 16	"				
	4	"	18	" "	"	"	" "	"				
	5	"	20	" "	"	"	" "	"				
	6	"	21	" "	"	"	" "	"				
	7	"	28	off	Coast	Whales						
	8	"	29	"	"	"						
	9	"	30	"	"	"						
	10	Feb	1	"	"	"						
	11	"	2	"	"	"						
	12	"	3	"	"	"						
P. M.	1	"	11	"	"	"						
	2	"	12	"	"	"						
	3	"	13	55 = 30			67 = 89					
	4	Mar	1	" "	"	"	" "	"				
	5	"	4	" "	"	"	" "	"				
	6	"	12	Coast	Bergens	20 miles	distend.					
	7	"	14	51 = 10	"	"	68 = 24					
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

[81]

Bk Josephine Long Palagonia

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1	Oct 17		Leak S	34=56	Long	51=40	M		Right W. hals		
	2	" 18		" "	34=41	"	51=48	"	"	W. hals		
	3	" 24		" "	35=46	"	52=46	"	"	"		
	4	" 30		" "	35=28	"	52=18	"	"	"		
	5	Nov 2		" "	35=28	52	fathoms	Water				
	6	" 10		" "	36=06	60	"	"	"			
	7	" 19		" "	36=60	50	"	"	"			
	8	" 21		" "	36=23	57	"	"	"			
	9	" 26		" "	36=38	71	"	"	"			
	10	Dec 3		" "	36=45	70	"	"	"			
	11	" 20		" "	37=88	90	"	"	"			
	12	Jan 12		" "	37=60		54=26	"		Shocks		
P. M.	1											
	2			Lat-	45=00	li	46=00	Long	54=00	li	58=00	good place for Spain
	3											
	4	Dec 4 Jan		Lat-	35=00	"	37=00	"	22	li	24	Right W. hals falcon
	5											grand
	6	Jan 19			52=27		66=46	Spain				
	7	Feb 28										
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			Bk Josephine	1878	Palagonia						
	2	Jan 25		41=36	Lat S	Long	67=00	M				
	3	" 26		41=40	" "	"	67=30	"				
	4	Feb 11		61=00	" "	"	68=12	"		P. Whales		
	5	" 12		52=02	" "	ms	"	"				
	6	" 15		61=06	" "	"	68=42	"				
	7	" 18		" "	" "	"	"	"				
	8	" 19		" "	" "	"	"	"				
	9	Mar 2		46=43	" "	"	61=00	"				
	10	" 3		46=23	" "	"	61=03	"				
	11	" 11							April 2			
	12	" 17							3	no observations		
P. M.	1	" 18							4			
	2	" 19							9			
	3	" 20		Mo B do					10	phase 14 th		
	4	" 24							14	45=55 62=58 M		
	5	" 25		about 70 fathoms					17	43=30 in long 50 fathoms		
	6	" 27		Water					19	42=20		
	7	" 28							20	42=01 59=30 M		
	8	" 30										
	9	Nov 1								July 1 to 28 saw Whales 10 times		
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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From

towards

Bk Josephine 1879

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1	mor	20	41 = 37	South	Long	47-48	m		Ohio Capt. Ellis		
	2	"	25	42 = 53	"	"	57-20	"		from 45 = 50 to 46 = 16 Sol		
	3	"	28	41 = 44	"	"	57 = 49	"		57-40 to 58 Long		
	4	"	28	41 = 36	"	"	57 = 50	"				
	5	April	8	46 = 11	"	"	61 = 39	"		mor 44 10	Long 20.00	
	6	"	"	45 = 20	"	"	60 = 34	"		46	" 60-20 m	
	7	"	12	45 = 01	"	"	60 = 34					
	8	"	13	45 = 00	"	"	61 = 10			Bk Baltimore 1872	Regt. W	
	9	"	14	44 = 33	"	"	61 = 10			Dec 8 38 = 408	3.00 E	
	10	"	16	44 = 45	"	"	60 = 32			8 38 = 35	5.28 "	
	11	"	23	44 = 04	"	"	61 = 10			7 8 38 = 08	8 = 18 "	
	12	May	2	43 = 30	"	"	60.00			8 11.38 = 20	10 = 10 E	
P. M.	1	"	3	43 = 27	"	"	59 = 34			10 38 = 35	31 = 34 Sperm	
	2	"	6	42 = 44	"	"	59 = 03			28 37 = 58	32 = 20 "	
	3	June	25	40 = 17			58 = 24			29 38 = 46	33 = 31 "	
	4						58			1877 33 = 25	8 = 40 "	
	5	Feb	5	46 = 12			60 = 14			Same Ship 1881 = 1882		
	6	"	22	51 = 08			63 = 24			from Aug 15 to Jan 30 in 38 = 50 to		
	7	Mar	16	45 = 30			63.00			37 = 36 S 4 24.00 to 13.00 Cont		
	8	"	17	45 = 31			62.00			took 13 whales making 8.00 Sbs		
	9	Apr	2	45 = 15			62 = 18			saw 2 whales 14 miles		
	10	"	3	45 = 22			62 = 30					
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2	1868	mor		18	38-25	5	5-38	E			
	3		"		25	37-04	"	6-33	"			
	4		Dec		15 4.	40 39	"	21-34	"			
	5		"		18	40-42	"	24-18	"			
	6		"		21	37-39		24-05	"			
	7		"		28	38-55		24 30	"			
	8		"		27	38-30		26-21	"			
	9		"		29	37-33	"	26-08	"			
	10											
	11											
	12		mor		26	38-46	17 20	20	Cont	Regt. W. Hale		
P. M.	1		"		30	40 28	28 31		"	Sperm		
	2		Dec		1 01	41-01	27 00			Regt. W. Sperm		
	3				2	40-55	28 22			Sperm		
	4				3	41-30	29 10			Regt. W. Hale		
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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[83]

Bk Bertha

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190	
A. M.		July	28	31-08 17	30-03 1/2								
		"	29	30-04	30-03								
		Aug	2nd	31-08	30-41								
		"	9	" "	31-23								
		"	13	31-05	31-20								
			14	30-28	31-33								
			26	30-35	30-00								
		Sept	8	33-07	32-14								
		"		34-39	32-06								
		"		34-23	32-41								
P. M.				Bk Bartholomew Sound 1887									
		from		31-11 to 32-18	31-4								
		Aug		31-11 to 32-18	31-4								
		Sept	4th	31-11 to 32-18	31-4								
				31-11 to 32-18	31-4								
				31-11 to 32-18	31-4								
				31-11 to 32-18	31-4								
				31-11 to 32-18	31-4								
				31-11 to 32-18	31-4								
				31-11 to 32-18	31-4								
				31-11 to 32-18	31-4								
				31-11 to 32-18	31-4								

[illegible][illegible]

From

towards

Alvin Knobel

1911 Dec 5th to Feb 29

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1			Lat. 33½ S								
	2			Long 47 to 48 West.								
	3											
	4			Reed in Daisy								
	5			33 to 34 S								
	6			Long 44 to 45 West.						Feb to Mar.		
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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towards

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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towards

From

towards

Barby

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1				Aug 12		10.00					
	2				" "		20.00					
	3											
	4				Season of 1902.		17	whales				
	5											
	6				Season of 1903.		17	whales				
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1				Westward the Course of Empire							
	2				takes its way							
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Thos. F. Muehligan
Steam H.L. Br. Alexander

	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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Barby

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A. M.	1				July	1 st	10.00					
	2				" "	"	20.00					
	3				" "	"	25.00					
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P. M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

	Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. In.	Lon. by Ob.
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